MODIS IOT Weekly Report
Mission Operations Days: 2000/064 to 2000/070
March 3, 2000 20:00:00 GMT to March 10, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode
MODIS is in Science Mode
MODIS has no known Anomalies

Blackbody	On	Nominal
Calibration Electronics	On	Nominal
Control Processor	A On; B off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	On	Nominal
FIFO Memory	On	Nominal
Format Processor	On	Nominal
PC FPA	On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	On	Nominal
NIR	On	Nominal
SMIR	On	Nominal
LWIR	On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On, B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67	Nominal

This Week's Completed MODIS Activities:

Friday, March 3, 2000
063/23:47:45   ATC – OA16: SD/SDSM Screened Double

Saturday, March 4, 2000

064/06:23:16 ATC – OA15: SD/SDSM Open Double
064/12:58:46 ATC – OA16: SD/SDSM Screened Double
064/13:20:53 Real-time – Set SMIR Itwk / Vdet to 110 / 224
064/13:21:45 Real-time – Set Blackbody duty cycle to 100%
064/13:23:13 Real-time – Set Blackbody temperature to 315K
064/19:34:17 ATC – OA16: SD/SDSM Screened Double
064/22:51:55 ATC – Formatter to Day Rate (13:56 earlier than Nadir Term. Crossing)
                            This allows for all Bands to be recorded for the following
activities.
064/22:51:57 ATC – PC DC Restore OFF
064/22:51:59 ATC – PV DC Restore OFF
064/22:52:01 ATC – Sector Rotation to –3400
064/22:52:03 ATC – OA16: SD/SDSM Screened Double
064/23:09:58 ATC – Sector Rotation to 0
064/23:10:00 ATC – PV DC Restore ON
064/23:10:02 ATC – PC DC Restore ON
064/23:10:04 ATC – Formatter to Night Rate (to make up for earlier Day extension)
064/23:10:04 ATC – Formatter to Day Rate (Back on track for nominal rate modes)
064/23:36:00 Real-time – Set Blackbody temperature to 270K

Sunday, March 5, 2000
065/03:48:50 ATC – OA15: SD/SDSM Open Double
065/08:45:19 ATC – OA16: SD/SDSM Screened Double
065/13:41:56 ATC – OA16: SD/SDSM Screened Double
065/18:38:35 ATC – OA15: SD/SDSM Open Double
065/19:13:10 Real-time – Set SMIR Itwk / Vdet to 110 / 228
065/19:14:41 Real-time – Set Blackbody temperature to 315K

Monday, March 6, 2000
066/00:00:00 Real-time – Set Blackbody temperature to 270K
066/00:01:10 Real-time – Set Blackbody duty cycle to 33%
066/06:10:43 ATC – OA16: SD/SDSM Screened Double
066/11:07:21 ATC – OA16: SD/SDSM Screened Double
066/12:02:34 ATC – OA19: SRCA Full Radiometric
066/12:46:14 ATC – OA15: SD/SDSM Open Double
066/17:12:55 Real-time – Set SMIR Itwk / Vdet to 110 / 226
066/21:00:37 ATC – OA16: SD/SDSM Screened Double

Tuesday, March 7, 2000
067/03:36:08 ATC – OA15: SD/SDSM Open Double
067/08:32:46 ATC – OA16: SD/SDSM Screened Double
067/10:11:38 ATC – OA16: SD/SDSM Screened Double
067/11:00:00 ATC – OA26: Set Blackbody to 285K
067/13:00:00 ATC – OA26: Set Blackbody to 290K
067/14:45:30 Real-time – Set Blackbody duty cycle to 100%
067/15:00:00 ATC – OA26: Set Blackbody to 295K
067/17:00:00 ATC – OA26: Set Blackbody to 300K
067/19:29:00 Real-time – Set Blackbody temperature to 270K

067/19:30:00 Real-time – Set Blackbody duty cycle to 33%
067/20:04:56 ATC – OA15: SD/SDSM Open Double

Wednesday, March 8, 2000
068/02:40:24 ATC – OA16: SD/SDSM Screened Double
068/09:15:54 ATC – OA16: SD/SDSM Screened Double
068/11:50:01 ATC – OA23: SRCA Full Spatial
068/14:12:23 ATC – OA15: SD/SDSM Open Double
068/18:48:29 Real-time   Turn on A-side Blackbody
068/18:50:14 Real-time   Set Blackbody to 290K
068/20:48:03 ATC – OA16: SD/SDSM Screened Double

Thursday, March 9, 2000
069/00:05:49 ATC – OA16: SD/SDSM Screened Double
069/03:23:34 ATC – OA15: SD/SDSM Open Double
069/14:49:02 Real-time   Set Blackbody to 315K
069/14:49:53 Real-time   Set Blackbody Duty Cycle to 100%
069/21:31:16 ATC – OA16: SD/SDSM Screened Double
069/21:50:43 Real-time   Set Blackbody to 270K
069/21:51:34 Real-time   Set Blackbody Duty Cycle to 33%
069/23:10:09 ATC – OA16: SD/SDSM Screened Double

Friday, March 10, 2000
070/04:06:48 ATC – OA15: SD/SDSM Open Double
070/09:03:26 ATC – OA16: SD/SDSM Screened Double
070/09:55:34 ATC – OA22: SRCA Spectral Part 1 (30W)
070/11:50:18 ATC – OA22: SRCA Spectral Part 2 (30W)
070/13:12:44 ATC – OA22: SRCA Spectral Part 3 (10W)
070/15:08:04 ATC – OA22: SRCA Spectral Part 4 (10W)
070/15:52:12-16:04:20 Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                       8 Vcal steps of 1 DN, Nstep of 20,20,20,8
070/17:40:12-17:52:05 Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                       8 Vcal steps of 1 DN, Nstep of 18,18,18,6
070/18:56:44 ATC – OA16: SD/SDSM Screened Double

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, March 10, 2000
070/20:11:00 – 20:22:49   Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                            8 Vcal steps of 1 DN,   Nstep of 22,22,22,10
070/21:39:23   Real-time - Set new gain changes for bands 5, 14H, and 16
070/21:59:17   Real-time - Set Blackbody to 290K

070/22:14:29   ATC – OA15: SD/SDSM Open Double

Saturday, March 11, 2000
071/03:11:08   ATC – OA16: SD/SDSM Screened Double
071/08:07:46   ATC – OA16: SD/SDSM Screened Double
071/13:04:25   ATC – OA15: SD/SDSM Open Double
071/16:35:43 – 16:42:11   ATC – OA14:Sector Rotation for entire cavity (DCR Off)
                                   Deltas of 0, 1776, 4711, 5643, & 6842
071/18:00:04   ATC – OA16: SD/SDSM Screened Double

Sunday, March 12, 2000
072/03:54:06 ATC – OA16: SD/SDSM Screened Double
072/08:50:44 ATC – OA15: SD/SDSM Open Double
072/15:26:14 ATC – OA16: SD/SDSM Screened Double
072/20:23:52 ATC – OA16: SD/SDSM Screened Double
072/??? Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                  8 Vcal steps of 1 DN, Nstep of 20,20,20,8
072/??? Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                  8 Vcal steps of 1 DN, Nstep of 18,18,18,6
072/??? Real-time   Ecal Sweep; Vcal starts 48,43,53,60
                                  8 Vcal steps of 1 DN,   Nstep of 22,22,22,10

Monday, March 13, 2000
073/01:19:29   ATC – OA16: SD/SDSM Screened Double
073/02:14:40   ATC – OA19: SRCA Full Radiometric
073/04:37:14   ATC – OA15: SD/SDSM Open Double
073/07:54:59   ATC – OA15: SD/SDSM Screened Double
073/11:12:44   ATC – OA15: SD/SDSM Screened Double
073/13:54:52 – 15:33:45   ATC – OA24: SRCA 10W Radiometric (Rad Feedback Mode)
073/20:30:23 – 22:09:15   ATC – OA24: SRCA 10W Radiometric (Constant Current Mde)

Tuesday, March 14, 2000
074/00:23:45   ATC – OA15: SD/SDSM Open Double
074/01:00:00   Real-time   Set Blackbody to 270K
074/03:05:53 – 04:44:45   ATC – OA25: SRCA 1W Radiometric
074/05:20:22   ATC – OA16: SD/SDSM Screened Double
074/15:00:00   ATC - Set Blackbody to 315K
074/15:00???   Real-time   Set Blackbody duty cycle to 100%
074/16:52:30   ATC – OA16: SD/SDSM Screened Double
074/18:31:22   ATC – OA15: SD/SDSM Open Double
074/20:38:52   Drag Make-up Maneuver – less than 20 seconds long
074/22:00:00   ATC – Set Blackbody to 270K
074/22:00???   Real-time   Set Blackbody duty cycle to 33%

Wednesday, March 15, 2000
075/02:45:46   ATC – OA16: SD/SDSM Screened Double
075/07:42:25   ATC – OA16: SD/SDSM Screened Double

075/12:42:52   ATC – OA15: SD/SDSM Open Double
075/15:05:19 – 16:02:50   ATC – OA23: SRCA Full Spatial
075/19:14:36   ATC – OA16: SD/SDSM Screened Double

Thursday, March 16, 2000
076/07:00   ATC – Blackbody to 280K
076/12:00   ATC – Blackbody to 285K
076/15:00   ATC – Blackbody to 290K
076/15:??   Real-time – Set Blackbody duty cycle to 100%
076/17:00   ATC – Blackbody to 295K
076/19:00   ATC – Blackbody to 300K
076/21:00   ATC – Blackbody to 270K
076/21:??   ATC – Blackbody to 33%
076/   ATC – OA16: SD/SDSM Screened Double
076/   ATC – OA15: SD/SDSM Open Double
076/   ATC – OA16: SD/SDSM Screened Double
076/   ATC – OA16: SD/SDSM Screened Double
076/   ATC – OA15: SD/SDSM Open Double

Friday, March 17, 2000
077/   Real-time Set Blackbody to 290K
077/   ATC – OA16: SD/SDSM Screened Double
077/   ATC – OA16: SD/SDSM Screened Double
077/   ATC – OA22: SRCA Full Spectral
077/   ATC – OA15: SD/SDSM Open Double
077/   ATC – OA16: SD/SDSM Screened Double

Saturday, March 18, 2000
078/   ATC – OA16: SD/SDSM Screened Double
078/   ATC – OA15: SD/SDSM Open Double
078/   ATC – OA16: SD/SDSM Screened Double
078/   ATC – OA16: SD/SDSM Screened Double

Wed, March 15, 2000 - IRU Yaw and Roll Slews
Thus, March 16, 2000 - FSS Yaw and Roll Slews
Wed, March 22, 2000 - Drag Makeup Maneuver
Fri, March 24, 2000   - MODIS Roll Maneuver (-19 deg)
Sat, April 25, 2000   - MODIS Yaw Maneuvers
Sun, April 26, 2000   - MODIS Yaw Maneuvers
Mon, April 27, 2000   - Inclination Maneuver
Tue, April 28, 2000   - Post-inclination Drag Makeup Maneuver

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open. Functional checkout of MODIS is complete and was successful. All mechanisms behaved nominally.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

The transition to normal operations continues as the FOT has begun running our morning status meeting as Project Leads begin the handover.

Limited Life Item Status:

SRCA 10W Lamp #1: 142.8 of 500 hours
SRCA 10W Lamp #2: 124.0 of 500 hours
SRCA 10W Lamp #3: 133.2 of 500 hours
SRCA 10W Lamp #4: 61.5 of 500 housr

SRCA 1W Lamp #1: 543.8 of 4000 hours
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1121 of 3022 Movements
Nadir Aperture Door: 530 of 1316 Movements
Space View Door: 436 of 1316 Movements